

NOV 13 1992

NORTH CAROLINA
ENVIRONMENTAL MANAGEMENT COMMISSION
DEPARTMENT OF ENVIRONMENT, HEALTH, & NATURAL RESOURCES
APPLICATION FOR PERMIT TO CONSTRUCT A MONITORING WELL SYSTEM

Winston-Salem
Regional Office

Date: 11/10, 19 92 County Alamance

In accordance with the provisions of Article 7, Chapter 87, General Statutes of North Carolina and regulations pursuant thereto, application is hereby made for a permit to monitoring wells.

1. Name of Applicant: S&ME (Telephone: (919)855-7547)

Applicant's Mailing Address: 135-C Montlieu Ave., Greensboro, N.C. 27419

2. Name of Property Owner (if different from applicant) Ray Jernigan

Owner's Mailing Address: 1342 Trollingwood - Hawfields Road, Mebane, N.C. 27302

3. Contact Person: Ray Jernigan (Telephone: (919)563-4791)

4. Location of Property: I-85 North Access Road and Trollingwood Road

5. Reason for Monitoring Well(s): Environmental Assessment
(ex: nondischarge permit requirements, suspected contamination, environmental assessment, etc.)

6. Type of facility or site for which the monitoring well(s) is needed: Underground Storage Tank
(ex: nondischarge facility, waste disposal site, landfill, underground storage tank, etc.)

7. Type of contamination being monitored (if applicable): Petroleum Hydrocarbons
(ex: nutrients, organics, heavy metals, etc.)

8. Are any existing recovery wells associated with the monitoring well(s)? no If yes, how many?

Recovery Well Construction Permit No.:

9. Distance to a known waste or pollution source: 10 feet

10. Are any water supply wells located less than 500 feet from the proposed monitoring wells? yes on-site, not in use

11. Well Driller: S&ME, Inc. If yes, give distance: 125 feet

12. Registration #: 412

13. Driller's Address: 135-C Montlieu Avenue, Greensboro, NC 27419

PROPOSED MONITORING WELL CONSTRUCTION INFORMATION

1. Total Number of Wells to be constructed: 5 ; (A) Number to be completed in bedrock? 1
(B) Number to be completed in unconsolidated material? 4

2. Estimated depth of well(s): 35 feet

3. Gravel or sand pack interval (if appropriate)
From 20 feet To 35 feet

4. Type of casing used: PVC
(ex: PVC, stainless steel, galvanized steel, etc.)

5. Diameter of casing: 2 inches

FOR OFFICE USE ONLY	
<input type="checkbox"/>	PERMITTED ACTIVITY
<input type="checkbox"/>	U.S.T. LEAK DETECTION
<input type="checkbox"/>	GROUNDWATER QUALITY STANDARDS
<input type="checkbox"/>	VIOLATIONS SUSPECTED FROM UNPERMITTED
<input type="checkbox"/>	ACTIVITIES
<input type="checkbox"/>	NOTICE OF NON-COMPLIANCE AT
<input type="checkbox"/>	UNPERMITTED FACILITIES
PERMIT NO. <u> </u>	ISSUED <u>19</u>
INCIDENT # <u> </u>	

6. Thickness of casing: Sch. 40 inches
7. How will the well(s) be secured? Locking box, flush mounted
8. Estimated beginning construction date: November 17, 1992
9. Estimated completion date: November 24, 1992

ADDITIONAL INFORMATION

1. ATTACH A SITE MAP SHOWING THE LOCATIONS OF THE FOLLOWING:
 - 1 - PROPOSED MONITORING WELL(S)
 - 2 - ALL EXISTING MONITORING AND RECOVERY WELLS OR TEST BORINGS WITH THE PROPERTY BOUNDARY
 - 3 - ALL WATER SUPPLY WELLS WITHIN 500 FEET OF THE WASTE SOURCES
 - 4 - AT LEAST TWO REFERENCE POINTS (NUMBERED ROADS, INTERSECTIONS, STREAMS, ETC.)
2. PROVIDE A WELL CONSTRUCTION DIAGRAM OF EACH WELL SHOWING DIAMETER, ESTIMATED DEPTH, SCREEN INTERVALS, SAND/GRAVEL PACKS, TYPE OF CASING MATERIAL, CASING WALL THICKNESS, WELL HEAD COMPLETION DETAILS, ETC.)

The Applicant hereby agrees the proposed well(s) will be constructed in accordance with approved specifications and conditions of the Well Construction Permit as regulated under the Well Construction Standards (Title 15A North Carolina Administrative Code, Subchapter 2C) and accepts full responsibility for compliance with these rules.

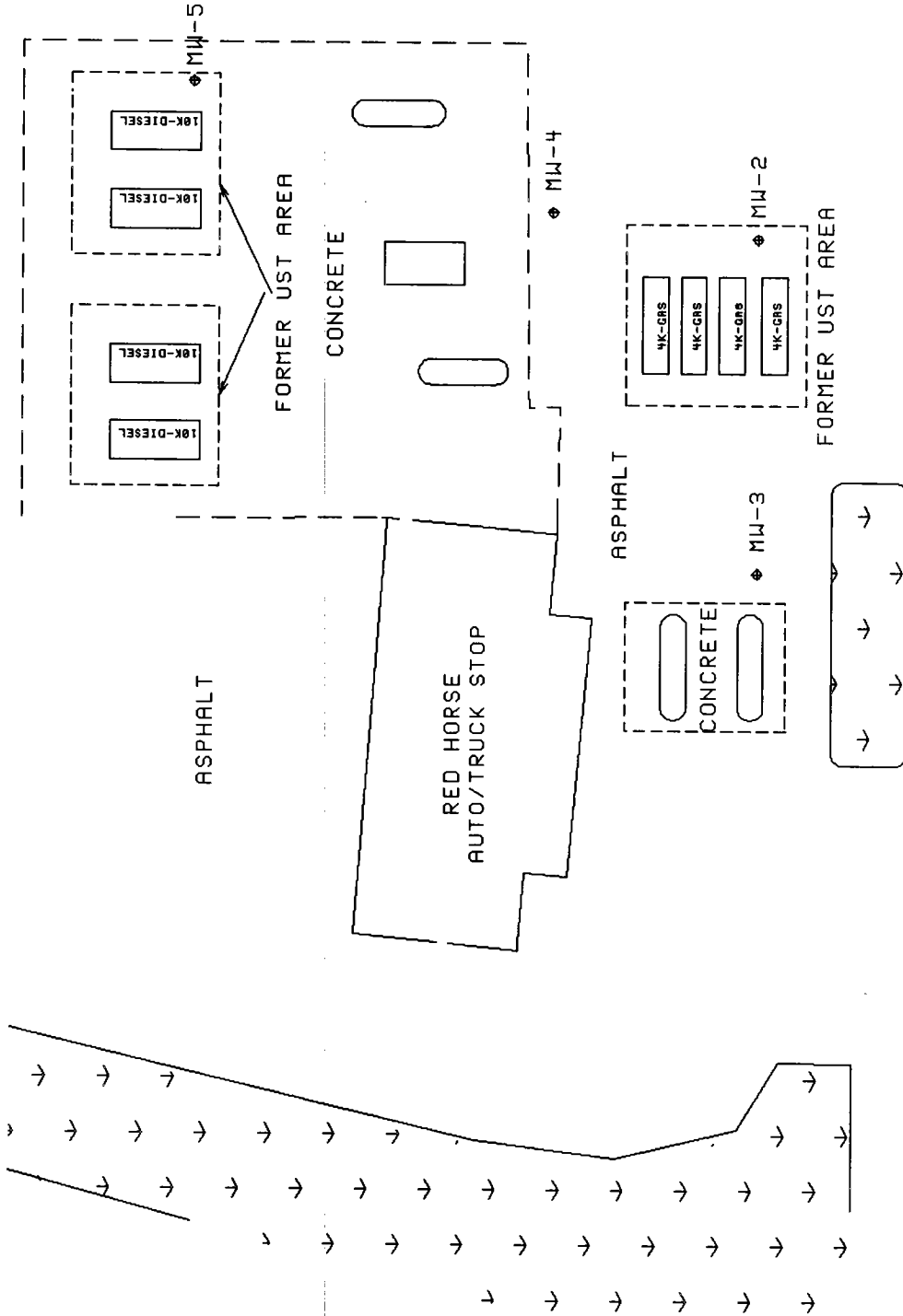
Jan P. Bor
Signature of Applicant or Agent

Project Geologist
Title (if applicable)

If the property is owned by someone other than the applicant, the property owner hereby consents to allow the applicant to construct monitoring wells as outlined in this application and that it shall be the responsibility of the applicant to ensure that these monitoring wells conform to the Well Construction Standards (Title 15A North Carolina Administrative Code, Subchapter 2C).

Signature of Property Owner (if different from applicant)

Note: Enclosed is a copy of a well permit issued to Unical July 6, 1992.



◆ MW-1

NOTE: NOT TO SCALE



S&ME, INC.

GREENSBORO, NORTH CAROLINA

DATE: 11-10-92

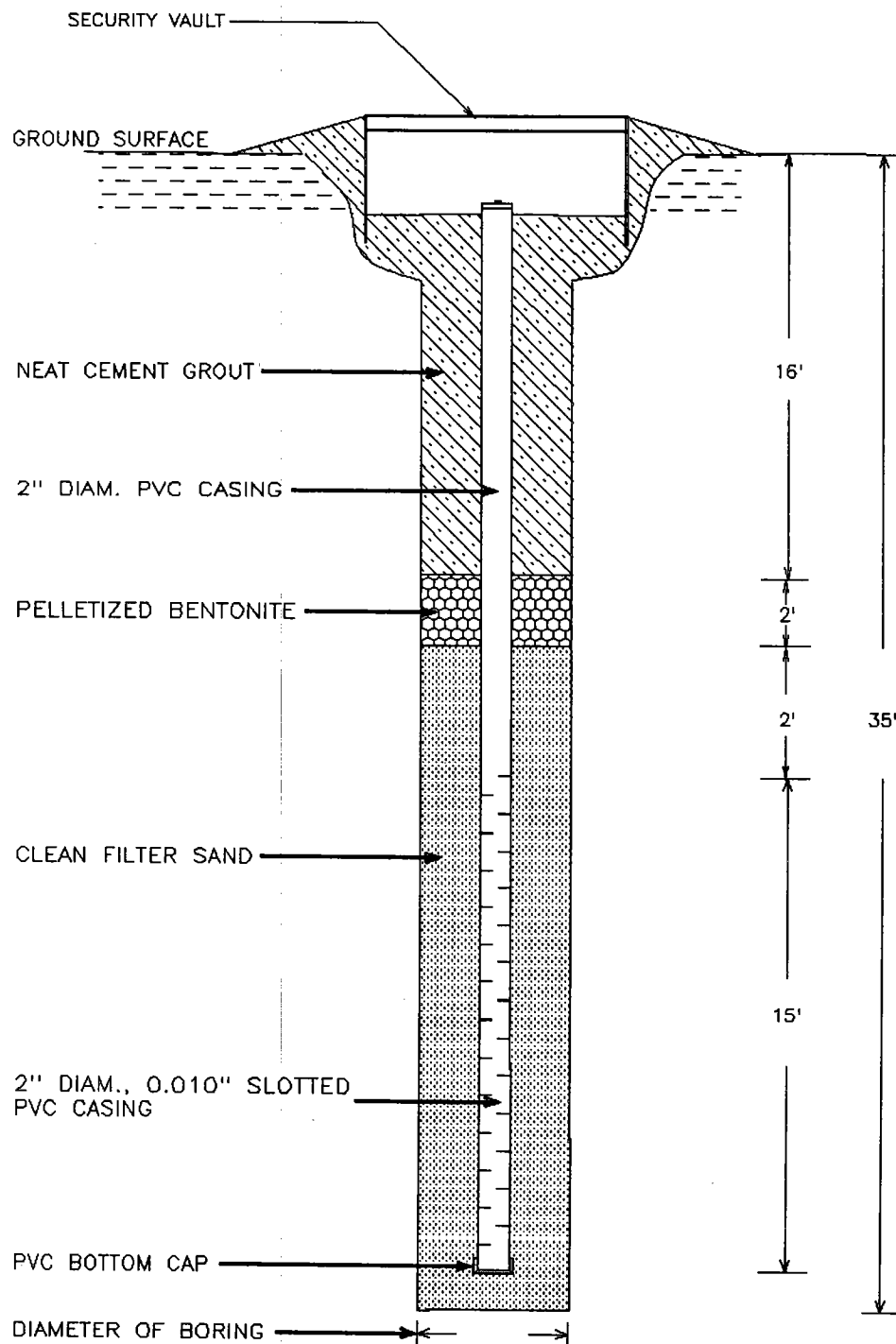
APPROVED BY: VLR

DRAWN BY: VLR

REDHORSE AUTO/TRUCK STOP

LOCATION PLAN

DRAWING NO. 080-1



WELL NO. MW-1 - MW-5

SCREEN SLOT SIZE: .010

INSTALLATION DATE: 11/17/92

GROUNDWATER LEVEL: _____
(DEPTH BELOW GROUND SURFACE)



S&ME, INC.
GREENSBORO, NORTH CAROLINA

DATE:

APPROVED BY:

DRAWN BY:

VLR

DRAWING NO.



State of North Carolina
Department of Environment, Health, and Natural Resources
Winston-Salem Regional Office

James G. Martin, Governor
William W. Cobey, Jr., Secretary

Margaret Plemmons Foster
Regional Manager

DIVISION OF ENVIRONMENTAL MANAGEMENT
GROUNDWATER SECTION

July 6, 1992

Unocal Corporation
13 Corporate Square NE
P. O. Box 4147
Atlanta GA. 30329

SUBJECT: MONITOR WELL CONSTRUCTION
PERMIT NO. 00-0361-WM-0130
ALAMANCE COUNTY
FILE NAME: Red Horse Truck Stop

Dear Sir:

In accordance with your application received June 24, 1992, we are forwarding herewith Monitor Well Construction Permit No. 00-0361-WM-0130 for the construction of three monitor wells in the Carolina Slate Belt Hydrogeologic Unit.

Henceforth, correspondence and data relating to these wells shall be designated as specified in the subject heading above.

This Permit will be effective from the date of its issuance and shall be subject to the conditions and limitations as specified therein.

Sincerely,

A handwritten signature in cursive script that reads "Sherri V. Knight".

Sherri V. Knight
Groundwater Supervisor

SVK/LDC/ahl
Enclosure

cc: Groundwater Section - Central Office
Davidson County Health Department
Ensco Corporation
WSRO Files

NORTH CAROLINA
ENVIRONMENTAL MANAGEMENT COMMISSION
DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES

PERMIT FOR THE CONSTRUCTION OF
A MONITOR WELL OR WELL SYSTEM

In accordance with the provisions of Article 7, Chapter 87,
North Carolina General Statutes, and other applicable Laws,
Rules, and Regulations.

PERMISSION IS HEREBY GRANTED TO

Unocal Corporation

FOR THE CONSTRUCTION OF THREE MONITOR WELLS in the Carolina Slate Belt Hydrogeologic unit located at 1342 Trollingwood - Hawfield Road, Mebane, North Carolina in Davidson County in accordance with the application dated June 22, 1992, and in conformity with the specifications and supporting data, all of which are filed with the Department of Environment, Health and Natural Resources and are considered a part of this Permit.

This Permit is for well construction only, and does not waive any provisions or requirements or any other applicable laws or regulations.

Construction of a well under this Permit shall be in compliance with the North Carolina Well Construction Regulations and Standards, and any other laws and regulations pertaining to well construction.

This Permit will be effective from the date of its issuance until January 6, 1993, and shall be subject to other specified conditions, limitations or exceptions as follows:

1. A permanent identification plate with the date of construction, depth of well, screen interval, depth of grout, drilling contractor, and his registration number shall be attached to the well head or the outer protective steel casing.

2. The well construction completion form and all water quality data are to be submitted to the Central Office of the Groundwater Section P. O. Box 29535, Raleigh, North Carolina 27611.
3. All laboratory analysis of Groundwater samples collected from the permitted monitor wells are to be submitted to North Carolina Department of Environment, Health, and Natural Resources, Groundwater Section, P. O. Box 29535, Raleigh, N. C. 27611 with a copy to the North Carolina Department of Environment, Health and Natural Resources, Groundwater Section, 8025 North Point Boulevard, Suite 100, Winston-Salem, N. C. 27106 within 60 days of well completion, and quarterly thereafter.
4. All additional investigative findings in relation to the pollution sources being monitored, as indicated under "Additional Information" of form GW-22M ("Item J" of form GW-22B) of permit application, are to be submitted to North Carolina Department of Environment, Health and Natural Resources, Groundwater Section, P. O. Box 29535, Raleigh, N. C. 27611 with a copy to North Carolina Department of Environment, Health, and Natural Resources, Groundwater Section, 8025 North Point Boulevard, Suite 100, Winston-Salem, N. C. 27106 within 60 days of well completion, and quarterly thereafter.
5. The well shall be afforded a means of protection against vandalism, damage, or unauthorized use.
6. When any monitor well is no longer useful for its intended purpose, it shall be abandoned in compliance with North Carolina Administrative Code 15. 2C.0113 and a well abandonment form sent to the North Carolina Department of Environment, Health, and Natural Resources, Groundwater Section, P. O. Box 29535, Raleigh, N. C. 27611 with a copy to North Carolina Department of Environment, Health and Natural Resources, Groundwater Section, 8025 North Point Boulevard, Suite 100, Winston-Salem, N. C. 27106.

Permit No. 00-0361-WM-0130
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7. The monitor well shall be constructed in accordance with the Groundwater Section's recommended construction details as outlined in attachment #1.
8. A county monitor well construction permit shall be required by the county health departments where applicable. In Forsyth County, contact the Forsyth County Health Department, Division of Environmental Health, P.O. Box 686, Winston-Salem, NC 27102-0686.

Permit issued this the 6th day of July 1992

FOR THE NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

Larry D. Coble

Larry D. Coble, Regional Supervisor
Division of Environmental Management

By Authority of the Environmental Management Commission

Permit No. 00-0361-WM-0130